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Abstract Of the Disclosure

[00038] A method for increasing the convective heat transfer capabilities of a liquid cooler coupled to various system and vehicle components. A structure is placed within a hollow tubing of the liquid cooler to distort the laminar flow of fluid within a center portion of the hollow tubing, which decreases the temperature rise of the fluid along an outer wall of the hollow tubing associated with laminar flow. In preferred embodiments, the structure consists of an elongated baffle wire or an extruded elongated ridge member. The structure allows the outer surface of the tubing to have increased cooling at a particular liquid flow rate, which allows more heat transfer capability to a coupled system or vehicle component as compared with liquid coolers without the structure.